Function: Cargo handlin	Function: Cargo handling and stowage at the management level		
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of earsoes	Knowledge of and ability to apply relevant international regulations, codes and standards concerning the safe handling, stowage, securing and transport of cargoes	Examination and assessment of evidence obtained from one or more of the following:  1 approved in-service experience	The frequency and extent of cargo condition monitoring is appropriate to its nature and prevailing conditions.
	Knowledge of the effect on trim and stability of cargoes and cargo operations	.2 approved simulator training, where appropriate	Unacceptable or unforescen variations in the condition or specification of the cargo is promptly recognized and remedial action is immediately taken and designed to safeound
	Use of stability and trim diagrams and stress calculating equipment, including automatic databased (ADB) equipment and knowledge of loading cargoes and ballasting in order to keep hull stress within acceptable limits	using: stability, trim and stress tables, diagrams and stress calculating equipment.	the safety of the ship and those on board.  Cargo operations are planned and executed in accordance with established procedures and legislative requirements
ŕ	Stowage and securing of cargoes on board ships, including cargo handling gear and securing and lashing equipment		Stowage and securing of cargoes enstutes that stability and stress conditions remain within safe limits at all times during the voyage
	Losding and unlosding operations, with special regard to the transport of cargoes identified in the Code of Safe Practice for Cargo Stowage and Securing		
	General knowledge of tankers and tanker operations		

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CRITERIA FOR EVALUATING COMPETENCE	Planned distribution of cargo is based on reliable information and is in accordance with established enidelines and legislative	requirements	Information on dangers, hazards and special requirements is recorded in a format suitable for	easy reference in the event of an incident
METHODS FOR DEMONSTRATING COMPETENCE	Examination and assessment of evidence obtained from one or more of the following:	.) approved in-service experience	.2 approved simulator training where appropriate	3 approved specialist training
KNOWLEDGE, UNDERSTANDING AND PROFICENCY	International regulations, standards, codes and recommendations on the carriage of dangerous	cargoes, including the International Mariums Dangerous Goods (IMDG) Code and the Code of	Safe Practice for Solid Bulk Cargoes (BC Code) Cerrage of dangermis hazardous and harmful	cargoes; precautions during loading and unloading and care during the voyage
COMPETENCE	Carriage of dangerous			

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Function: Controlling the	Function: Controlling the operation of the ship and care for persons on board at the management level	ons on board at the management level	
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Control trim, stability and stress	Understanding of fundamental principles of ship construction and the theories and factors affecting trun and stability and measures necessary to preserve trun and stability	Examination and assessment of evidence obtained from one or more of the following:  1 approved in-service experience	Stability and stress conditions are maintained within safe limits at all times
	Knowledge of the effect on trim and stability of a ship in the event of damage to and consequent flooding of a compartment and counter measures to be taken	2 approved training ship experience 3 approved simulator training, where appropriate	
	Knowledge of IMO recommendations concerning ship stability		
Monitor and control compliance with legislative requirements and measures to	Knowledge of international maritime law embodied in international agreements and conventions	Examination and assessment of evidence obtained from one or more of the following:	Procedures for monitoring operations and maintenance comply with legislative requirements
ensure safety of life at sea and the protection of the marine environment	Regard shall be paid especially to the following subjects:	. 1 approved in-service experience . 2 approved training ship experience	Potential non-compliance is promptly and fully identified
	.1 certificates and other documents required to be earried on board ships by international conventions, how they	.3 approved simulator training, where appropriate	Planned renewal and extension of certificates ensures continued validity of surveyed items and equipment
	may be obtained and their period of validity		

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CRITERIA FOR EVALUATING COMPETENCE							
METHODS FOR DEMONSTRATING COMPETENCE						-	
KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	responsibilities under the relevant requirements of the International Convention on Load Lines	responsibilities under the relevant requirements of the International Convention for the Safety of Life at Sea	responsibilities under the International Convention for the Prevention of Pollution from Ships	maritime declarations of health and the requirements of the International Health Regulations	responsibilities under international instruments affecting the safety of the ship, passengers, crew and cargo	methods and aids to prevent pollution of the marine environment by ships	national legislation for implementing international agreements and conventions
	to :		4 .	· · ·	9.	·	88.
COMPETENCE	Monitor and control compliance with legislative requirements and measures to ensure safety of life at sea	and the protection of the marine environment (continued)		· .			

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Maintain safety and security of the ship's crew and passengers and the	A thorough knowledge of life-saving appliance regulations (International Convention for the Safety of Life at Sea)	Examination and assessment of evidence obtained from practical instruction and approved in-service training and experience	Procedures for monitoring fire detection and safety systems ensure that all alarms are detected promptly and acted upon in accordance with established emergency procedures
saving, fire-fighting and other	Organization of fire and abandon ship drills		
Salcty systems	Maintenance of operational condition of life- saving, fire-fighting and other safety systems		
	Actions to be taken to protect and safeguard all persons on board in emergencies		
	Actions to limit damage and salve the ship following a fire, explosion, collision or grounding		
Develop emergency and darnage control plans and	Preparation of contingency plans for response to emergencies	Examination and assessment of evidence obtained from approved in-service training and	Emergency procedures are in accordance with the established plans for emergency situations
handle emergency situations	Ship construction, including damage control	מישלתו ביותר	
	Methods and sids for fire prevention, detection and extinction		
	Functions and use of life-saving appliances		
Organize and manage the crew	A knowledge of personnel management, organization and training on board ship	Examination and assessment of evidence obtained from approved in-service training and experience	The crew are allocated duties and informed of expected standards of work and behaviour in a manner appropriate to the individuals concerned
	A knowledge of related international maritime conventions and recommendations, and national legislation		Training objectives and activities are based on an assessment of current competence and capabilities and operational requirements

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TRATING CRITERIA FOR EVALUATING COMPETENCE	idence Action taken and procedures followed correctly apply and make full use of advice available.				
METHODS FOR DEMONSTRATING COMPETENCE	Examinationand assessment of evidence obtained from approved training				
KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	A thorough knowledge of the use and contents of the following publications:	.) International Medical Guide for Ships or equivalent national publications	.2 Medical section of the International Code of Signals	.3 Medical First Aid Guide for Use in Accidents Involving Dangerous Goods	
COMPETENCE	Organize and manage the provision of medical care on	board			

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#### Section A-II/3

Mandatory minimum requirements for certification of officers in charge of a navigational watch and of masters on ships of less than 500 gross tonnage, engaged on near-coastal voyages

# Officer in charge of a navigational watch

# Standard of competence

- Every candidate for certification shall:
  - .1 be required to demonstrate the competence to undertake at operational level, the tasks, duties and responsibilities listed in column 1 of table A-II/3;
  - .2 at least hold an appropriate certificate for performing VHF radiocommunications in accordance with the requirements of the Radio Regulations; and
  - .3 if designated to have primary responsibility for radiocommunications during distress incidents, hold an appropriate certificate issued or recognized under the provisions of the Radio Regulations.
- 2 The minimum knowledge, understanding and proficiency required for certification is listed in column 2 of table A-II/3.
- The level of knowledge of the subjects listed in column 2 of table A-II/3 shall be sufficient to enable the candidate to serve in the capacity of officer in charge of a navigational watch.
- Training and experience to achieve the necessary level of theoretical knowledge, understanding and proficiency shall be based on section A-VIII/1, part 3-1 Basic principles to be observed in keeping a navigational watch, and shall also take into account the relevant requirements of this part and the guidance given in part B of this Code.
- 5 Every candidate for certification shall be required to provide evidence of having achieved the required standard of competence in accordance with the methods for demonstrating competence and the criteria for evaluating competence tabulated in columns 3 and 4 of table A-II/3.

# Special training

6 Every candidate for certification as officer in charge of a navigational watch on ships of less than 500 gross tonnage, engaged on near-coastal voyages, who, in accordance with paragraph 4.2.1 of regulation II/3, is required to have completed special training, shall follow an approved programme of on-board training which:

- ensures that during the required period of seagoing service the candidate receives systematic practical training and experience in the tasks, duties and responsibilities of an officer in charge of a navigational watch, taking into account the guidance given in section B-II/1 of this Code;
- is closely supervised and monitored by qualified officers on board the ships in which the approved seagoing service is performed; and
- .3 is adequately documented in a training record book or similar document.

# Master

Tevery candidate for certification as master on ships of less than 500 gross tonnage, engaged on near coastal voyages, shall meet the requirements for an officer in charge of a navigational watch set out below and, in addition, shall be required to provide evidence of knowledge and ability to carry out all the duties of such a master.

Table A-11/3

Specification of minimum standard of competence for officers in charge of a navigational watch and for masters on ships of less than 500 gross tonnage engaged on near-coastal voyages

Column 2  KNOWLEDGE, UNDERSTANDING AND  Ability to determine the ship's position by the use of:  1 landmarks 2 aids to navigation, including speed reckoning, taking into account speed 3 approved training ship experience approved training ship experience approved training, where approved aboratory equipment training, where training, the use speed sections and buoys lighthouses, beacons and buoys speed 3 approved aboratory equipment training, where approved laboratory equipment training, winds, tides, currents and estimated using chart catalogues, charts, navigational warnings, publications, radio navigational equipment, echo sounding equipment, compass	12 RSTANDING AND RECTHODS FOR DEMONSTRATING COMPETENCE	netion: Navigation at	Eunction: Navigation at the operational level	Column 3	Column 4
KNOWLEDGE, UNDERSTANDING AND  RETHIOUS FOR DEADLY  Examination and assessment of evidence obtained from one or more of the following:  Ability to determine the ship's position by the use of:  I landmarks  a aids to navigation, including approved training ship experience  a aids to navigation, including approved training ship experience  a aids to navigation, including approved training ship experience  a aids to navigation, including approved training ship experience  a aids to navigation, taking into account training appropriate training these, currents and estimated speed  winds, tides, currents and estimated using-chart catalogues, charts, navigational varnings, publications, radio navigational varnings, publications, radio navigational varnings, equipment, echo sounding equipment, compasses	KNOWLEDGE, UNDERSTANDING AND  METHOUS POR DEADLY  Examination and assessment of evidence obtained from one or more of the following:  Ability to determine the ship's position by the use of:  I landmarks  I landmarks  2 aids to navigation, including approved training ship experience appropriate lighthouses, beacons and buoys lighthouses, beacons and buoys lighthouses, currents and estimated variance, approved laboratory equipment training, where speed speed using charts, navigational variants, publications, radio navigational sextant, ezimuth mirror, electronic navigation	Column 1	Column 2	ONLIN ON THE STATE OF THE STATE	CRITERIA FOR EVALUATING COMPETENCE
Ability to determine the ship's position by the use  Ability to determine the ship's position by the use  1 landmarks  2 approved training ship experience  2 aids to navigation, including  3 approved training ship experience  2 aids to navigation, including  3 approved training ship experience  3 approved training, where appropriate appropriate  4 approved laboratory equipment training, where approved laboratory equipment training, where approved laboratory equipment training, winds, titles, currents and estimated using; chart catalogues, charts, navigational warnings, publications, radio navigational equipment, compassed	Ability to determine the ship's position by the use  Ability to determine the ship's position by the use  Ability to determine the ship's position by the use  I landmarks  aids to navigation, including  aids to navigation, including  adead reckoning, taking into account winds, tides, currents and estimated speed  using, chart catalogues, charts, navigational warnings, publications, radio navigational equipment, compass equipment, compass	MPETENCE	KNOWLEDGE, UNDERSTANDING AND	$\dashv$	district states and
Ability to determine the ship's position by the use of:  Ability to determine the ship's position by the use of:  I landmarks  2 approved in-service experience  2 approved training ship experience  3 approved training ship experience  3 approved training ship experience  4 approved simulator training, where appropriate lighthouses, beacons and buoys training appropriate training speed  4 approved laboratory equipment training training strings tides, currents and estimated speed  5 publications, radio navigational warnings, publications, radio navigational warnings, equipment, echo sounding equipment, compass	Ability to determine the ship's position by the use of:  Ability to determine the ship's position by the use of:  I landmarks  2 approved in-service experience  2 approved training ship experience  3 approved training ship experience  3 approved training ship experience  4 approved training, where appropriate appropriate training, where speed winds, tides, currents and estimated using chart catalogues, charts, navigational warnings, publications, radio navigational equipment, compass equipment, compass				Information obtained from havigations with its prefet of correctly and
Ability to determine the ship's position by the use  of:  1 landmarks  2 approved training ship experience  2 aids to navigation, including  3 approved simulator training, where appropriate lighthouses, beacons and buoys  3 dead reckoning, taking into account vaining, where training, where approved laboratory equipment training ship experience  4 approved taboratory equipment training ship experience  9 approved training, where appropriate training, where speed vainds, tides, currents and estimated speed using, chart catalogues, charts, navigational sextant, ezimuth mirror, electronic navigations sextant, ezimuth mirror, electronic navigation sextant, ezimuth mirror, electronic navigation sextant, ezimuth mirror, electronic navigation sextant, ezimuth mirror, electronic navigations.	Ability to determine the ship's position by the use  of:  landmarks  landmarks  aids to navigation, including  dead reckoning, taking into account vinds, tides, currents and estimated vising, chart catalogues, charts, navigational speed  using, chart catalogues, charts, navigational varnings, pechalications, radio navigational varnings, sextant, ezimuth mirror, electronic navigation equipment, compass	conduct a coastal		<u></u>	properly applied
landmarks  aids to navigation, including lighthouses, beacons and buoys  dead reckoning, taking into account vinds, tides, currents and estimated speed  speed  using: chart catalogues, charts, navigational varnings, publications, radio navigational varnings, equipment, echo sounding equipment, compass	landmarks  aids to navigation, including lighthouses, beacons and buoys  dead reckoning, taking into account speed speed  younds, tides, currents and estimated speed  using: chart catalogues, charts, navigational warnings, publications, radio navigational warnings, equipment, echo sounding equipment, compass	and determine	Ability to determine the ship's position by the use	, l approved in-service experience	The primary method of fixing the ship's position is the
approved simulator training, where appropriate  appropriate  4 spproved laboratory equipment training using: chart catalogues, charts, navigational using: chart catalogues, charts, navigational sextant, ezimuth mirror, electronic navigation sextant, ezimuth mirror, electronic navigation equipment, echo sounding equipment, compass	approved simulator training, where appropriate  appropriate  4 spproved laboratory equipment training using: chart catalogues, charts, navigational publications, radio navigational warnings, publications, radio navigational warnings, sextant, azimuth mirror, electronic navigation sextant, azimuth mirror, electronic navigation equipment, echo sounding equipment, compass			2 approved training ship experience	most appropriate to use presenting
appropriate  4 spproved laboratory equipment training alled using: chart catalogues, charts, navigational using: chart eatelogues, charts, navigational sextant, ezimuth mirror, electronic navigation sextant, ezimuth mirror, electronic navigation sextant, echo sounding equipment, compass	appropriate  4 spproved laboratory equipment training aled using: chart catalogues, charts, navigational using: chart, eatio navigational warnings, publications, radio navigational warnings, equipment, echo sounding equipment, compass		onifuriori moiso.	3 approved simulator training, where	The position is determined within the limits of
using: chart catalogues, charts, navigational using: chart catalogues, charts, navigational publications, radio navigational sextant, ezimuth mirror, electronic navigation equipment, echo sounding equipment, compass	using: chart catalogues, charts, navigational using: chart catalogues, charts, navigational publications, radio navigational sextant, ezimuth mirror, electronic navigation equipment, echo sounding equipment, compass		2 aids to navigation, moreover 110-hthouses, beacons and buoys	appropriate	acceptable instrument system enuis
using: chart catalogues, charts, navigational publications, radio navigational warnings, sextant, azimuth mirror, electronic navigation sextant, azimuth mirror, electronic compass equipment, echo sounding equipment, compass	using: chart catalogues, charts, navigational publications, radio navigational warnings, sextant, azimuth mirror, electronic navigation equipment, compass		dead reckoning, taking into account		The reliability of the information obtained from the orimary method of position fixing is checked at
•			winds, tides, currents and commerce		appropriate intervals
,				using that can be a sectional warnings, publications, radio navigation sextant, azimuth mirror, electronic navigation	Calculations and measurements of navigational
				equipment, echo sounding equipment, compassi	

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METHODS FOR DEMONSTRATING CRITERIA FOR EVALUATING COMPETENCE COMPETENCE	Charts and publications selected are the largest scale on board suitable for the area of navigation and charts are corrected in accordance with the latest information available		Assessment of evidence obtained from approved   Performance checks and tests of navigation systems		performance standards for navigational equipment [Interpretation and analysis of information obtained from radar is in accordance with accepted navigational practice and takes account of the limits and accuracy levels of radar.	Errors in magnetic compasses are determined and applied correctly to courses and bearings		
METHODS FOR DEMONSTRATING COMPETENCE	·		Assessment of evidence	radar navigation and AF				
KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	Thorough knowledge of and ability to use navigational charts and publications, such as sailing directions, tide tables, notices to mariners, radio navigational warnings and ships' routeing information	Reporting in accordance with the Guidelines and Criteria for Ship Reporting Systems	Note: This item only required for certification as maxter	Navigational aids and equipment	Ability to operate safely and determine the ship's position by use of all navigational aids and equipment commonly fitted on board the ships concerned	Compasses	Knowledge of the errors and corrections of magnetic compasses	Ability to determine errors of the compass using terrestrial means, and to allow for such errors
COMPETENCE	Plan and conduct a coastal passage and determine position (coatinued)							

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COMPETENCE KNO	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Plan and conduct a coastal passage and determine position (continued)	Automatic pilot  Knewledge of automatic pilot systems and procedures, change-over from manual to automatic control and vice-verse; adjustment of controls for optimum performance		Selection of the mode of steering is the most suitable for prevailing weather, sea and traffic conditions and intended manceuvres
	Meleorology		Measurements and observations of weather conditions are accurate and appropriate to the passage
	Ability to use and interpret information obtained from shipborne meteorological instruments		Meteorological information is evaluated and applied to maintain the safe passage of the vessel
	Knowledge of the characteristics of the various weather systems, reporting procedures and recording systems		
	Ability to apply the meteorological information available		

Table A-II/3 Page 3 of 10 pages

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Maintain a safe navigational Wa	Waichkeeping	Examination and assessment of evidence obtained from one or more of the following:	The conduct, handover and relief of the watch conforms with accepted opinginles and procedures
	Thorough knowledge of content, application and intent of the International Regulations for Preventing Collisions at Sea	.1 approved in-service experience	A proper tookout is mainteined at all times and in conformity with accepted principles and procedures
<u> </u>	Knowledge of content of the Basic Principles to be Observed in Recping a Navigational Watch	approved training ship experience     approved simulator training, where	Lights, shapes and sound signals conform with the requirements contained in the international
85 E	Use of routeing in accordance with the General Provisions on Shins' Routeins	appropriate  A source of laboratory equipment	Regulations for Preventing Collisions at Sea and are correctly recognized
	Quantum district of the state o	training	The frequency and extent of monitoring of traffic, the ship and the environment conforms with accepted principles and procedures
	Straight which the	7.5	aining

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Maintain a safe navigational watch (continued)			Action to avoid close encounters and collision with other vessels is in accordance with the International Regulations for Preventing Collisions at Sea.
			Decisions to adjust course and/or speed are both timely and in accordance with accepted navigation procedures
= <u></u>			A proper record is maintained of movements and activities relating to the navigation of the ship
·			Responsibility for safe navigation is clearly defined at all times, including periods when the Master is on the bridge and when under pilotage
Respond to emergencies	Emergency procedures including:	Examination and assessment of evidence obtained from one or more of the following:	The type and scale of the emergency is promptly identified
	.1 precautions for the protection and safety of passengers in emergency situations	.1 approved in-service experience	Initial actions and, if appropriate, manocuvring, are in accordance with contingency plans and are
-	.2 initial assessment of damage and damage control	approved training ship experience	appropriate to the urgency of the situation and the nature of the emergency
	.3 action to be taken following a collision	.3 approved simulator training, where appropriate	
	.4 action to be taken following a grounding	4 practical instruction	

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	PROFICIENCY	COMPETENCE	
Respond to emergencies (continued)	In addition, the following material should be included for certification as master:		
	.1 emergency steering		
	2 arrangements for towing and for being taken in tow	1	1100
	.3 graph rescuing persons from the sea	¥	
	**	,	
**************************************	appreciation of the action to be taken when emergencies arise in port	الله المؤولات المؤولا	
and to a distress signal	Search and rescue	Examination and assessment of evidence	The distress or emergency signal is intraediately
10 Sep	Knowledge of the contents of the IMO Merchant Ship Search and Rescue Manual (MERSAR)	contined from practical management of approved simulator training, where appropriate	Contingency plans and instructions in standing orders
The state of the s	Company of the Compan	The Common of th	are implemented and complied with

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Cargo operations are carried out in accordance with	Examination and assessment of evidence	A STATE OF THE PARTY OF THE PAR	
CRITERIA FOR EVALUATING COMPETENCE	METHODS FOR DEMONSTRATING COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICENCY	COMPETENCE
(I) Communication (Co. Co.		ng and stowage at the operational level	Function: Cargo handling and sto
in accordance with technical specifications and within safe operating limits at all times	appropriate	Proper procedures for anchoring and mooring	
Plant, auxiliary machinery and equipment is operated	3 approved simulator training, where	auxiliaries	
maintain safety of navigation	2 approved training ship experience	The operation of small ship power plants and	
Adjustments made to the ship's course and speed	.) approved in-service experience	Knowledge of factors affecting safe manoeuvring and handling	plants
Safe operating limits of ship propulsion, steering and power systems are not exceeded in normal	Examination and assessment of evidence obtained from one or more of the following:	Ship manoeuvring and handling	Manoeuvre the ship and operate small ship power
CRIEKIA FOR EVALUATINO COMPETENCE	METHODS FOR DEMONSTRATING COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICENCY	COMPETENCE

Function: Cargo handling and sto	g and stowage at the operational level		
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Monitor the loading, stowage, securing and unloading of	-	Examination and assessment of evidence obtained from one or more of the following:	Cargo operations are carried out in accordance with the cargo plan or other documents and established safety rules regulations, equipment operating
cargoes and their care during	Knowledge of safe handling, stowage and securing of cargoes including dangerous,	spproved in-service experience	instructions and shipboard stowage limitations
ag. fr. an	hazardous and harmful cargoes and their effect on the safety of life and of the ship	.2 approved training ship experience	The handling of dangerous, hazardous and harmful cargoes complies with international regulations and
	Use of the International Maritime Dangerous	3 approved simulator training, where	recognized standards and codes of safe practice
	Goods (IMDG) Code	appropriate	

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•	CRITERIA FOR EVALUATING COMPETENCE	Procedures for monitoring shipboard operations and ensuring compliance with MARPOL requirements are fully observed	Stability conditions comply with the IMO intact stability criteria under all conditions of loading Actions to ensure and maintain the watertight integrity of the ship are in accordance with accepted practice
ons on board at the operational level	METHODS FOR DEMONSTRATING COMPETENCE	Examination and assessment of evidence obtained from one or more of the following:  1 approved in-service experience  2 approved training ship experience	Examination and assessment of evidence obtained from one or more of the following:  approved in-service experience  approved training ship experience appropriate  appropriate  appropriate  training
Function: Controlling the operation of the ship and care for persons on board at the operational level	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	Prevention of pollution of the marine environment and anti-pollution procedures Knowledge of the precautions to be taken to prevent pollution of the marine environment and anti-pollution procedures Anti-pollution procedures and all associated equipment	Ship stability Working knowledge and application of stability, trin and stress tables, and diagrams and stress calculating equipment Understanding of fundamental actions to be taken in the event of partial loss of infact buoyancy Understanding of the fundamentals of watertight integrity Ship construction General knowledge of the principal structural members of a ship and the proper names for the various parts
Function: Controlling the	COMPETENCE	Ensure compliance with pollution prevention requirements	Maintain seaworthiness of the ship

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Prevent, control and fight fires on board	Fire prevention and fire-fighting appliances Knowledge of fire prevention	Assessment of evidence obtained from approved fro-fighting training and experience as set out in section A-VV3	The type and scale of the problem is promptly identified and initial actions conform with the energency procedures and contingency plans for the ship
	Ability to organize fire drills Knowledge of classes and chemistry of fire		Evacuation, emergency shut down and isolation procedures are appropriate to the nature of the emergency and are implemented promptly.
	Knowledge of fire-fighting systems Understanding of action to be taken in the event of fire, including fires involving oil systems		The order of priority, and the levels and time scales of making reports and informing personnel on board, are relevant to the nature of the emergency and reflect the urgency of the problem
Operate life-saving appliances	Life-sarving Ability to organize abendon ship drills and knowledge of the operation of survival craft and rescue boats, their launching appliances and arrangements, and their equipment including radio life-saving appliances, satellite EPIRBs, SARTs, immersion suits and thermal protective aids. Knowledge of survival at sea techniques	Assessment of evidence obtained from approved training and experience as set out in section A-VIZ, paregraphs 1 to 4	Actions in responding to abandon ship, and survival situations are appropriate to the prevailing circumstances and conditions and comply with eccepted safety practices and standards

Table A-II/3 Page 9 of 10 pages

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical first aid on board ship	Medical aid Practical application of medical guides and advice by radio, including the ability to take effective action based on such knowledge in the case of accidents or illnesses that are likely to occur on board ship	Assessment of evidence obtained from approved training as set out in section A-VI/4, paragraphs 1 to 3	The identification of probable cause, nature and extent of injuries or conditions is prompt and treatment minimizes immediate threat to life
Monitor compliance with legislative requirements	Basic working knowledge of the relevant IMO conventions concerning safety of life at sea and protection of the marine environment	Assessment of evidence obtained from examination or approved training	Legislative requirements relating to safety of life at sea and protection of the marine environment are correctly identified

Table A-II/3 Page 10 of 10 pages